Lialis

Convert Notes Data to SQL

User Manual

Version : 1.3
Date : 2011-01-19

Foreword

Lotus Domino environments contain a lot of content/data in applications and or mail files, which needs to be migrated when the organization decides to exchange the Lotus Domino environment for a different database system. With the Lialis Convert Notes Data to SQL application the transfer from Lotus Domino/Notes data to another database system can be arranged easily.

View this document to gain information about the functionalities and configuration options for the Lialis Convert Notes Data to SQL application.

Feel free to contact us for more questions or more information about this application and the license structure: marten.vosmer@lialis.com

History

12-05-2010	Notes to SQL – v1.01
11-06-2010	Notes to SQL – v1.02 • improved performance as a result of adjusted logging process • <database> postfix in .sql table name can be configured in configuration document • encrypted and signed documents which are not processed are logged with the UNID • issue resolved regarding fields identified as rich text and containing only text • added ODBC timeout • agent runtime adjusted from 1 to 4 hours
21-06-2010	Notes to SQL – v1.05 • improved performance • various issues resolved
05-09-2010	Notes to SQL – v1.1.2 • integrated Notes Field Dump v1.0 -> form Convert Notes data to SQL application. • added authorization script
19-01-2011	Convert Notes Data to SQL – v1.3 • Complete rewrite of Data Integrity Logging. Data Integrity logs are now smaller. • Added demonstration mode to the authorization. Authorization server still needs to be contacted. • Added OLEDB • Rewrite of CheckDeletions, runs much faster now. • Data Integrity checker works correctly now. Only OLEDB supported. • Removed table prefixes for fieldnames.

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1. Introduction

The Lialis Convert Notes Data to SQL application is a tool for mapping and exporting Notes Form and Field data via Excel to SQL. This is useful when Notes data (including Rich Text and attachments) needs to be transferred to an SQL database.

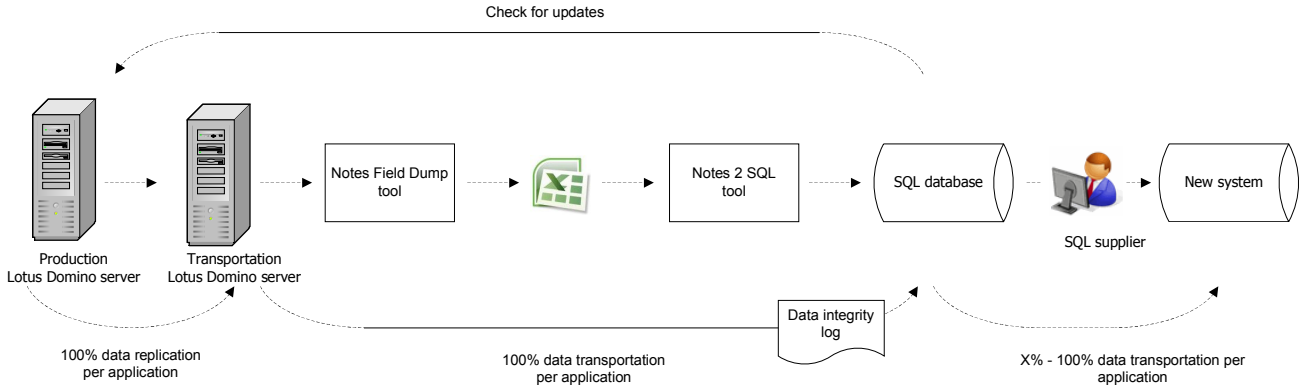
Key notes

- An affordable tool for a complex process
- The tool can connect with any other database system with ODBC and OLEDB support
- The tool establishes a connection between your Lotus Domino environment and a different database system for short term data migrations (for example to phase out the Lotus Domino environment).
- The tool contains an update mechanism: after transportation the update mechanism checks the Lotus Notes databases for updates and transports these updates to a different location in SQL (same table). For SQL it is clear this contains modifications to the earlier transported data.
- The tool imports form and field names from a Microsoft Excel file that is generated with the Lialis Notes Field Dump tool, after which all the fields are mapped in a table and field values are added. Lialis Notes Field Dump tool is now integrated with the Notes 2 SXL tool and form the Convert Notes Data to SQL application
- The tool can transfer text, rich text, attachments.
- Rich text conversion is currently only available for the Windows platform.
- The transfer is secured by a data integrity log that logs a checksum for every field containing a value that has been transferred.
- The tool performs the preliminaries; the SQL supplier will perform the transportation to the final database system.

Working process

1. Lialis implements a separate Lotus Domino transportation server containing the Convert Notes Data to SQL application
2. The Lotus Notes applications that need to be transported are replicated to the transportation server
3. The Replication process is disabled
4. The Notes Field Dump tool generates a Microsoft Excel file
5. The Convert Notes Data to SQL application is activated to import form and field names from the Excel file. All fields are mapped in a table and field values are added.
6. The Convert Notes Data to SQL application transfers the content to SQL and logs every field value that has been transferred (data integrity log)
7. The Replication process is enabled
8. Updates in the Lotus Notes applications are replicated
9. The Replication process is disabled
10. The updates are transferred to SQL and logged

This process is repeated until the new database system is taken in to production by the customer.



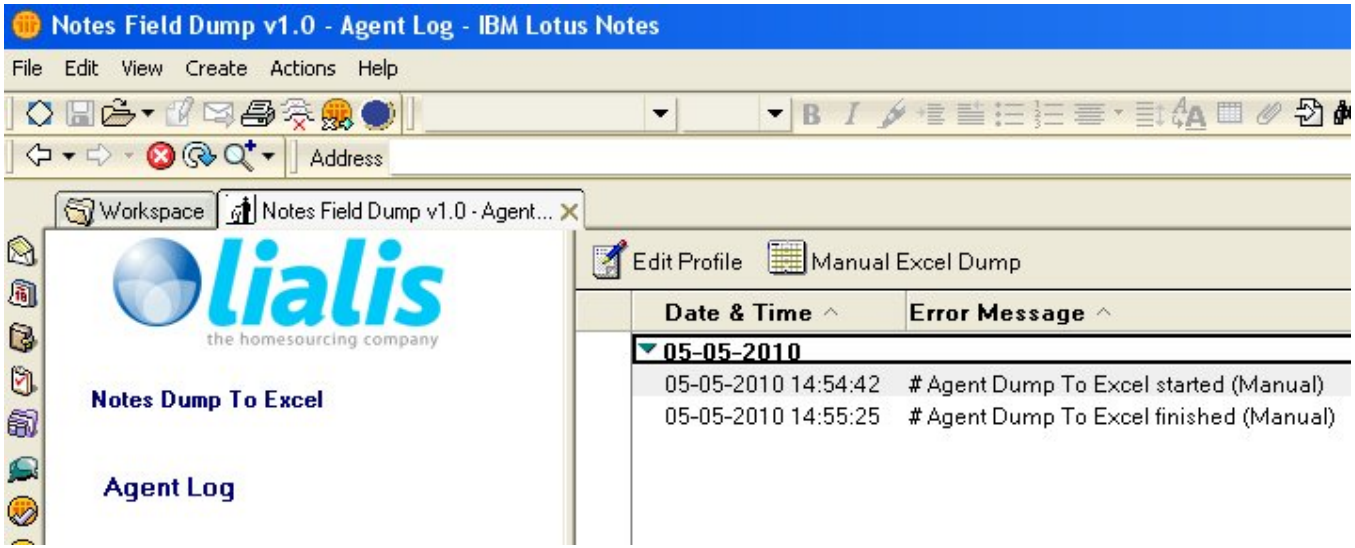
As per release 1.1.2, Notes Field Dump and Notes 2 SQL are integrated in one tool (Convert Notes Data to SQL application). The agents performing the field dump and the transfer to SQL will both check if they are authorized by Lialis to run. This check is done when the agent is started and may take about 30 seconds. The agent will lookup a document in the Lialis Convert Notes Data to SQL authorization database to find the server names that are authorized to run this tool. To do this, the agent will load the Web task (if it hasn't already been loaded) on the source server to return the results, and will quit this task (if it hasn't been loaded by default) when the check is done.

Please note that this application only works when the source Domino server runs on a Windows platform. Furthermore, the Demonstration version will not affect the output of the Notes Field Dump process. The export of Notes Field Data to SQL however, will be limited to 5 forms with a maximum of 10 fields for each form in the Demonstration version. To enable a full data transport to SQL, please contact marten.vosmer@lialis.com.

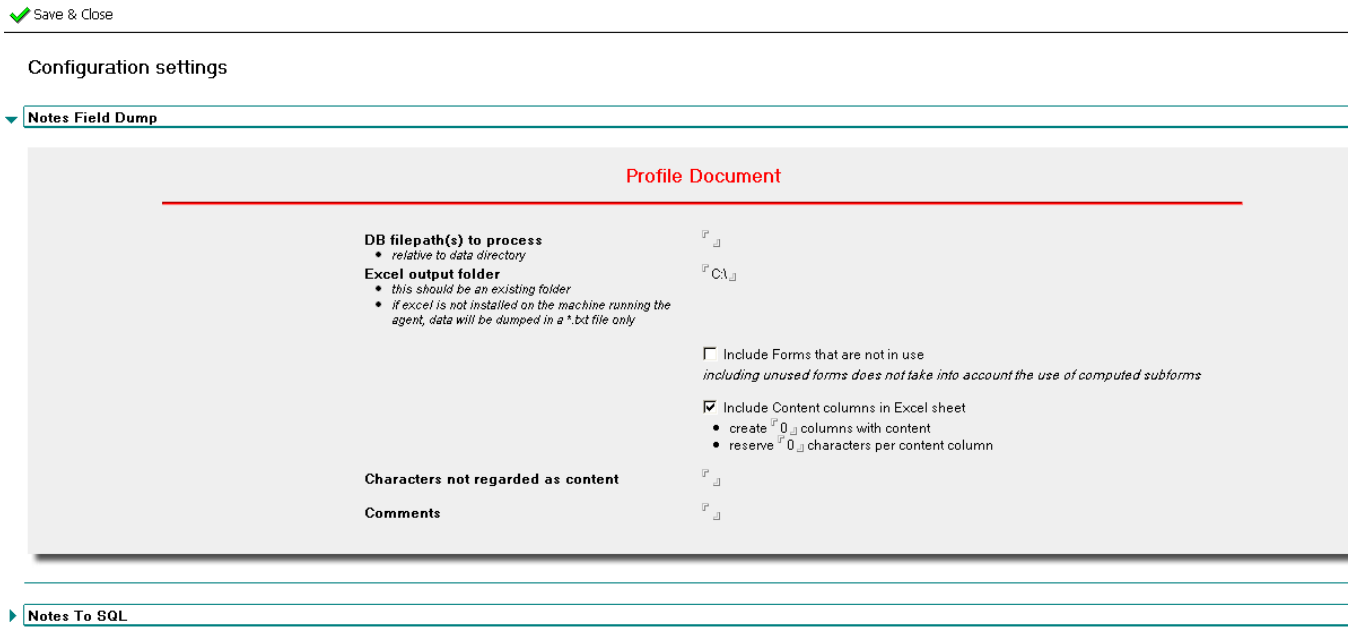
2. Notes Field Dump

The Notes Field Dump application contains only one view, called ‘Agent Log’. This view contains the log entries when an agent is started and finished, and when an error occurs during the agent run.

The view contains 2 buttons. Button ‘Edit Profile’ opens the configuration document of the application. Button ‘Manual Excel Dump’ starts the ‘Dump To Excel’ agent.


Notes Field Dump v1.0 - Agent Log - IBM Lotus Notes
File Edit View Create Actions Help
Address
Workspace
Notes Field Dump v1.0 - Agent...
lialis
the homesourcing company
Notes Dump To Excel
Agent Log
Edit Profile
Manual Excel Dump
Date & Time
Error Message
05-05-2010
05-05-2010 14:54:42 # Agent Dump To Excel started (Manual)
05-05-2010 14:55:25 # Agent Dump To Excel finished (Manual)

2.1 Profile document


Save & Close
Configuration settings
Notes Field Dump
Profile Document
DB filepath(s) to process
relative to data directory
Excel output folder
this should be an existing folder
if excel is not installed on the machine running the agent, data will be dumped in a *.txt file only
C:\
Include Forms that are not in use
including unused forms does not take into account the use of computed subforms
Include Content columns in Excel sheet
create 0 columns with content
reserve 0 characters per content column
Characters not regarded as content
Comments
Notes To SQL

DB filepath(s) to process
- Enter the file path(s) of the database(s) you want to dump to Excel. Note that the path should be relative to the Notes/Domino 'data' directory.
- Databases should be separated with "," ";" or a new line.

Excel Output folder
- This is the file system output folder where the Excel file is written. The default value is "c:\".

Include Forms that are not in use
- This option will also generate output for Forms that are not used by any document. Note that computed subforms used in this form may not be available in the output.

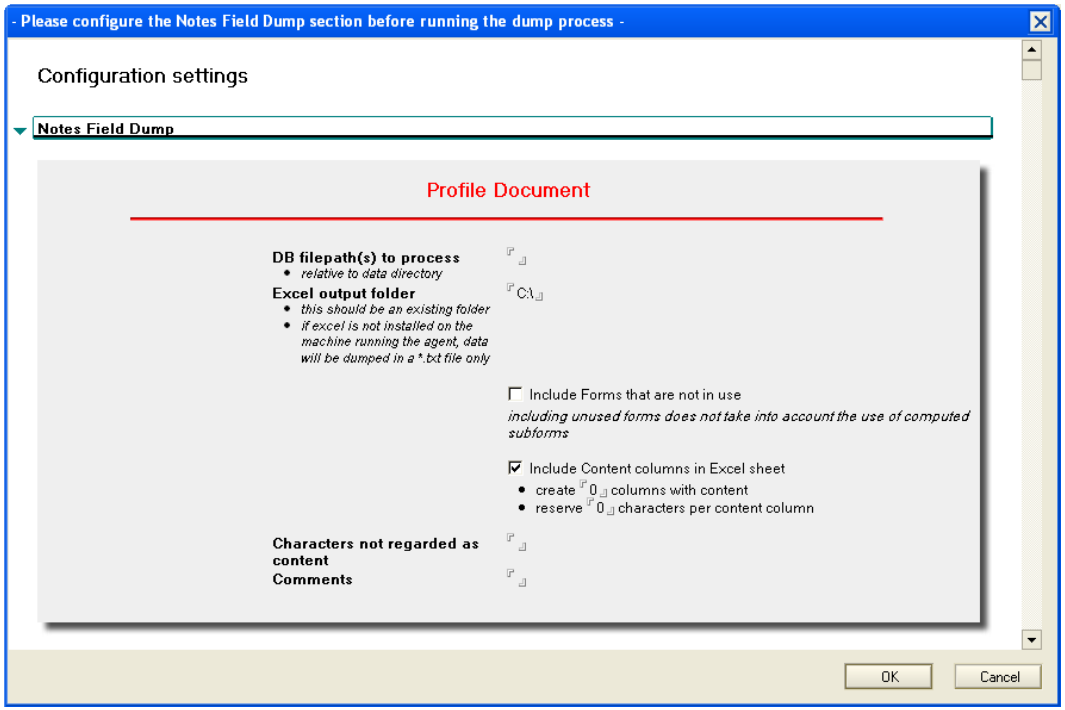
Include Content columns in Excel sheet
- When this box is selected (default), the agent will also dump some field content in the Excel sheet
  - Specify how many Excel columns need to be reserved for displaying field content. If you for instance enter 4, the agent will generate field content for the first 4 documents of each used form.
  - If set to 0 (default), no content is dumped to Excel
  - Specify how many characters of the content you want to display.
- If set to 0 (default), no content is dumped to Excel

Characters not regarded as content
- Here you can specify which characters or strings should not be regarded as content. Note that for performance reasons, exact matching is used here, i.e. fields that only contain one of the specified strings,

nothing more and nothing less. The default value list contains the following characters/strings (including 'space'): ! @ # $ % ^ & * ( ) _ + - = { } [ ] : | < > ? . " '

Comments
- Free text

When a profile document doesn't yet exist and the scheduled agent is run, the agent will immediately finish without checking anything. In case of the manual agent, a pop-up dialog box will open, telling you to first configure the tool. After saving this form ([OK]), you need to start the Dump To Excel agent again.


- Please configure the Notes Field Dump section before running the dump process -
Configuration settings
Notes Field Dump
Profile Document
DB filepath(s) to process
relative to data directory
Excel output folder
this should be an existing folder
if excel is not installed on the machine running the agent, data will be dumped in a *.txt file only
C:\
Include Forms that are not in use
including unused forms does not take into account the use of computed subforms
Include Content columns in Excel sheet
create 0 columns with content
reserve 0 characters per content column
Characters not regarded as content
Comments
OK
Cancel

2.2 Agent

When running the agent, print statements will update you with the status. These print statements (scheduled [log.nsf] as well as manual [status bar]) are useful to check if the agent is still processing.

The agent will create 2 files in the specified Excel Output folder. One is a *.txt file, the other is a formatted *.xls file. The *.xls file will only be available if the system running the agent has Microsoft Excel installed.

INVENTORY__NAMES_20100505145442.TXT 72 KB Text Document 5-5-2010 14:55
INVENTORY__NAMES_20100505145442.xls 188 KB Microsoft Office Exc... 5-5-2010 14:55

2.3 Excel output file

The Excel output may look something like this:

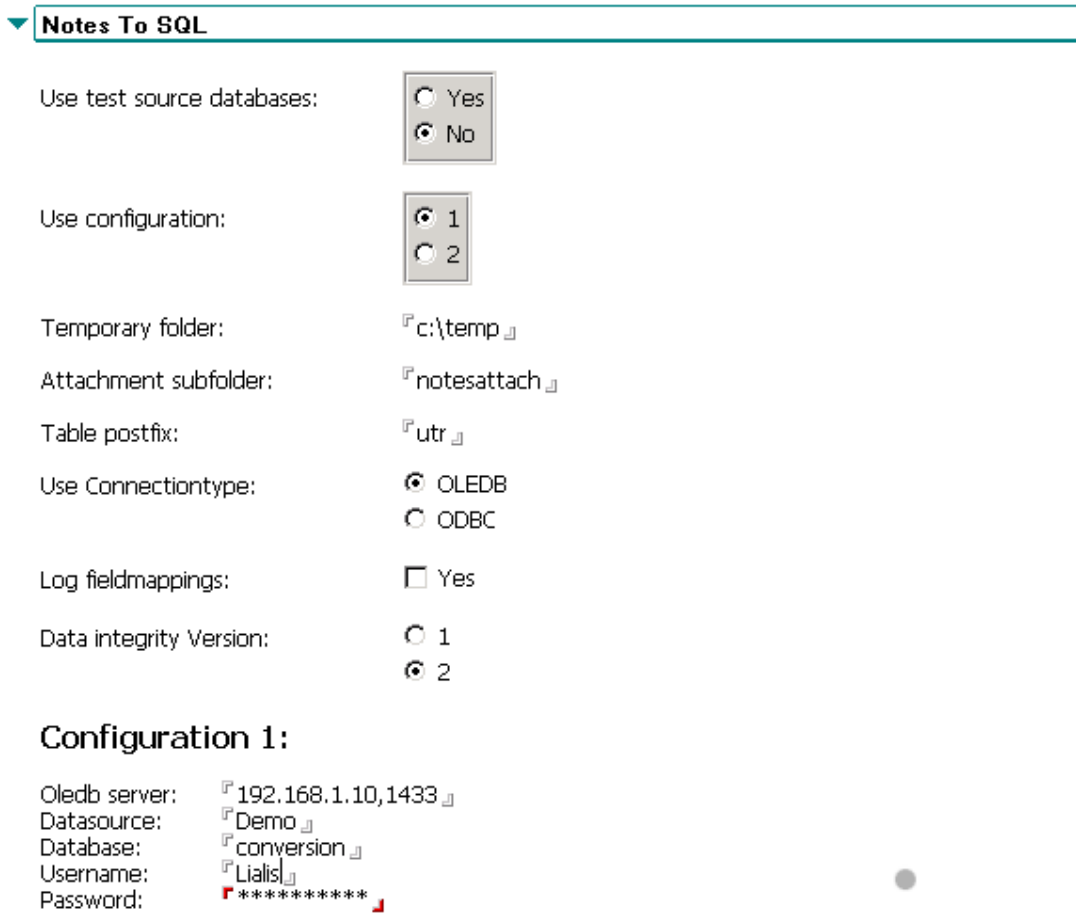
- Note that RICHTEXT item content is not dumped
- Columns are automatically filtered
- Column “Hits”, “Has content” and “Elements” show some extra comments on what is displayed in these columns

	A	B	C	D	E	F	G	H
1	Form	Field	Field Type	Hits	Has content	Elements	Content1	Content2
1019	POLICYREGISTRATION	REGGRPS	TEXT	6	2	2	Everyone	SBRAII
1020	POLICYREGISTRATION	LCLADMIN	TEXT	6	3	1	SYS_Administrators_NL	AT5 Systeembeheer
1021	POLICYREGISTRATION	COMMENTS	RICHTEXT	6	0	1		
1022	POLICYREGISTRATION	OWNER	AUTHORS	6	6	1	CN=Administrator/O=Sennen	CN=Domino Administrator/O=Iv-Groep
1023	POLICYREGISTRATION	LOCALADMIN	AUTHORS	6	6	2	CN=Administrator/O=Sennen	CN=Domino Administrator/O=Iv-Groep
1024	POLICYREGISTRATION	TYPE	TEXT	6	6	1	PolicyRegistration	PolicyRegistration
1025	POLICYREGISTRATION	DOCUMENTACCESS	AUTHORS	6	6	1	[PolicyModifier]	[PolicyModifier]
1026	POLICYREGISTRATION	CFGDOC	TEXT	6	0	1		
1027	POLICYREGISTRATION	$POLICYIFPITEMS	TEXT	6	0	1		
1028	POLICYREGISTRATION	$POLICYPOITEMS	TEXT	6	1	31	RegSrvr	
1029	POLICYREGISTRATION	$POLRDRS	READERS	6	0	1		
1030	POLICYREGISTRATION	$PLCYREG	NUMBERS	6	6	1	0	0
1031	POLICYREGISTRATION	FULLNAME	TEXT	6	6	1	Sennen Registration	Iv-Groep Basis
1032	POLICYREGISTRATION	DBQTA	TEXT	6	2	1	450	200
1033	POLICYREGISTRATION	WARNTHRESH	TEXT	6	2	1	400	150
1034	POLICYREGISTRATION	$POLMDTM	DATETIMES	6	6	1	26-8-2008 2:32	3-6-2009 12:26
1035	POLICYREGISTRATION	$SIGNATURE	SIGNATURE	6	0	1		
1036	POLICYREGISTRATION	$UPDATEDBY	NAMES	6	6	2	CN=Administrator/O=Sennen	CN=M. Vosmer/OU=Iv-Software/O=Iv-G
1037	POLICYREGISTRATION	$REVISIONS	DATETIMES	6	6	8	25-1-2008 17:28	23-6-2005 9:32
1038	POLICYREGISTRATION	$EXTERNALFIELDS	TEXT	1	1	1	1	
1039	POLICYREGISTRATION	DONT_SET_STRING	TEXT	1	1	1	Don't set value	
1040	POLICYSECURITY	FORM	TEXT	7	7	1	PolicySecurity	PolicySecurity
1041	POLICYSECURITY	STRMSG	TEXT	7	0	1		
1042	POLICYSECURITY	VWCNT	TEXT	7	0	1		
1043	POLICYSECURITY	HBLOAD	TEXT	7	7	1	0	0
1044	POLICYSECURITY	PLCYDESCR	TEXT	7	2	1	Iv-Groep Basis Security settings	default security policy
1045	POLICYSECURITY	USECUSTOMPOLICY	TEXT	6	6	1	0	1
1046	POLICYSECURITY	PWDALWHTTP	TEXT	7	7	1	1	0
1047	POLICYSECURITY	PWDSYNC	TEXT	7	7	1	1	1
1048	POLICYSECURITY	PWDWPCSHARING	TEXT	6	6	1	0	0
1049	POLICYSECURITY	PWDEXP	TEXT	7	7	1	1	1
1050	POLICYSECURITY	PWEXPWARN	TEXT	6	2	1	Please change your Notes password.	Test - Custom Warning Message
1051	POLICYSECURITY	ILENFORCE	TEXT	3	0	1		

3. Notes to SQL

3.1 Configuration

The Notes 2 SQL application contains a configuration document with configuration options:



- Use test source databases
  - When this option is set to “Yes”, the “pump” agent will transfer only randomly generated data from a test database to an SQL table. This testing is useful when the actual production database is very large. How to export randomly generate data for testing purposes is described in Step 4 – Create Random Test files.
  - When this option is set to “No”, the “pump” agent will transfer the data of the actual selected database to an SQL table.

- Use configuration
  - Here you can select which of the 2 configurations you want the “pump” agent to use for transferring data.
    Note: the database mentioned in the “Database” field should be created manually prior to the agent run.

- Temporary Folder
  - This is the folder where temporary files are saved. For instance the *.sql files that are generated in Step 2 – Generate SQL.

- Attachment subfolder
  - This is the subfolder of the Temporary Folder where attachments are saved temporarily during the transfer process.

- Use connectiontype
  - Selects whether the Pump process uses ODBC or OLEDB. The DataIntegrityChecker will always use OLEDB, because of an error in the ODBC driver.

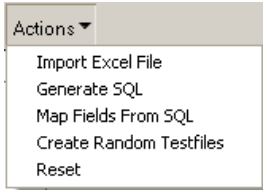
- Log Fieldmappings
  - If enabled the Pump agent will log all fieldmappings, this can be very long so it’s recommended to leave it off, unless there are mapping problems.

- Table postfix
  - This value will be added to the table name that is used in the SQL database. You can leave this field empty if no postfix is needed. Used if multiple instances of the Notes 2 SQL application are running on databases with the same filename, but with different content.

3.2 Manual actions

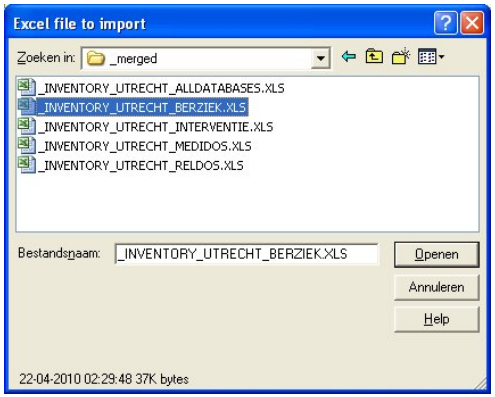
Note that you can only proceed with these actions when an Excel file with database forms and fields has been generated with the "Notes Field Dump" tool

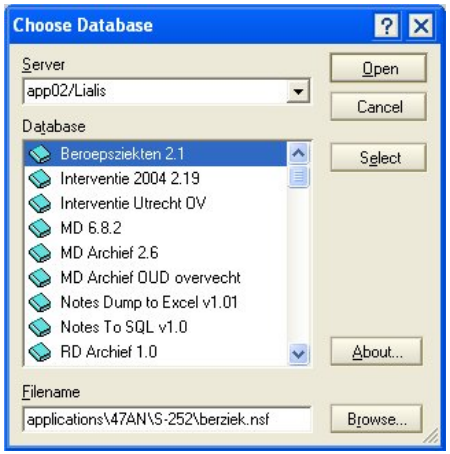
When the Convert Notes Data to SQL application is configured, some manual actions must be performed to give input to the "pump" agent. In the "Configured databases" view you will find the Actions button.



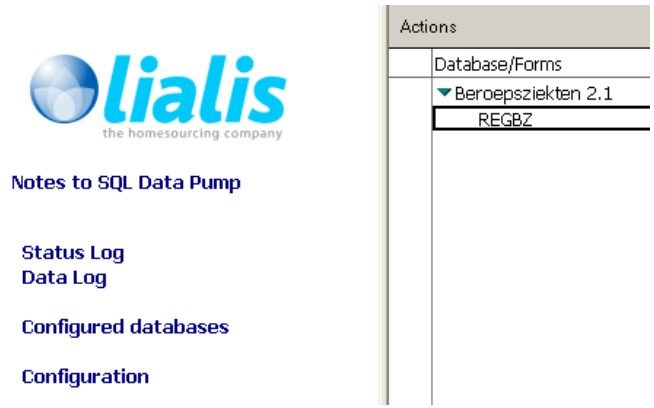
Step 1 – Import Excel File

In this step, the database forms and fields are imported from an Excel spreadsheet that has been generated with the “Notes Field Dump” tool. This action will extract all form and corresponding field names from this spreadsheet into the Convert Notes Data to SQL database. You need to select an Excel file to import the corresponding Notes database that you want to export to SQL.





When the action is finished, you will find a document in the “Configured databases” view for each form in the selected database.



Each document contains information of all fields on the specified form.

Form Mapping for form: REGBZ

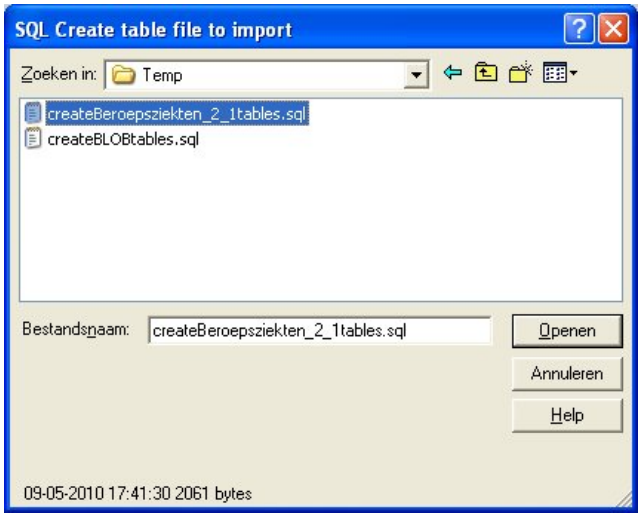
Source Field	Destination Table	Destination Field	Datatype	Hits	Elements
$CONFLICT			TEXT	1	1
$REF			NOTEREFS	1	1
$REVISIONS			DATETIMES	4417	19
$UPDATEDBY			NAMES	4417	4
BZ_AANDOENING			TEXT	2386	1
BZ_AANDOENING_SPOOR			TEXT	2031	1
BZ_AANDOENINGEN			TEXT	2031	1
BZ_AARD_BEROEPSZIEKT			TEXT	2386	1
E			TEXT	2386	1
BZ_ACTIVITEIT			TEXT	4417	1
BZ_ADVIES_WG			TEXT	4417	5
BZ_ADVIEZEN			TEXT	4417	1
BZ_ARBODIENST			TEXT	4417	1
BZ_BEDRIJFSARTS			TEXT	2031	1
BZ_BEROEP			TEXT	2031	1
BZ_BEROEP_CODE			TEXT	4417	1
BZ_BEROEPSZIEKTE			TEXT	2031	1
BZ_CAS			TEXT	2031	1

Step 2 – Generate SQL

In this step, an SQL script is generated for creating tables. The *.sql files are saved in the C:\Temp directory. The limit to a table row is 512 columns, because of a limitation in Microsoft SQL Server; when there are more columns (fields) involved, the table is split up. Note that all field types are converted to nvarchar(max), except date-time values which are converted in nvarchar(12) and are exported as yymmddhhmmss. (According to ISO 8601 Extended)

Step 3 – Map Fields From SQL

This step will map all Notes fields to the corresponding destination tables. The columns “Destination Table” (“T_” + form name) en “Destination Field” (“f_” + field name) are set in the Form document of the configured database. A “-“ character in the destination table or field column means that this field is excluded from mapping. When using this action, you have to select the database from the “Configured databases” view with the corresponding SQL file.



Form Mapping for form: REGBZ

Source Field	Destination Table	Destination Field	Datatype	Hits	Elements
$CONFLICT	-	-	TEXT	1	1
$REF	-	-	NOTEREFS	1	1
$REVISIONS	-	-	DATETIMES	4417	19
$UPDATEDBY	-	-	NAMES	4417	4
BZ_AANDOENING	T_BERZIEK_REGISTRATIE	REGBZ_BZ_AANDOENING	TEXT	2386	1
BZ_AANDOENING_SPOOR	FORMULIER_BEROEPSZIE	REGBZ_BZ_AANDOENING_	TEXT	2031	1
BZ_AANDOENINGEN	KTEN	SPOOR	TEXT	2031	1
BZ_AARD_BEROEPSZIEKT	T_BERZIEK_REGISTRATIE	REGBZ_BZ_AANDOENINGE	TEXT	2386	1
E	FORMULIER_BEROEPSZIE	N	TEXT	2386	1
BZ_ACTIVITEIT	KTEN	REGBZ_BZ_AARD_BEROEP	TEXT	4417	1
BZ_ADVIES_WG	T_BERZIEK_REGISTRATIE	SZIEKTE	TEXT	4417	5
BZ_ADVIEZEN	FORMULIER_BEROEPSZIE	REGBZ_BZ_ACTIVITEIT	TEXT	4417	1
BZ_ARBODIENST	KTEN	REGBZ_BZ_ADVIES_WG	TEXT	4417	1
BZ_BEDRIJFSARTS	T_BERZIEK_REGISTRATIE	REGBZ_BZ_ADVIEZEN	TEXT	2031	1
BZ_BEROEP	FORMULIER_BEROEPSZIE	REGBZ_BZ_ARBODIENST	TEXT	2031	1
BZ_BEROEP_CODE	KTEN	REGBZ_BZ_BEDRIJFSART	TEXT	4417	1
BZ_BEROEPSZIEKTE	T_BERZIEK_REGISTRATIE	S	TEXT	2031	1
BZ_CAS	FORMULIER_BEROEPSZIE	REGBZ_BZ_BEROEP	TEXT	2031	1
BZ_CAS_CODE	KTEN	REGBZ_BZ_BEROEP_CODE	TEXT	888	1
BZ_CASCODE	T_BERZIEK_REGISTRATIE	REGBZ_BZ_BEROEPSZIEK	TEXT	4417	1
BZ_CONTRACTNUMMER	FORMULIER_BEROEPSZIE	TE	DATETIMES	4417	1
BZ_DATUM	KTEN	REGBZ_BZ_CAS	DATETIMES	4417	1
BZ_DATUM_MELDING_NC	T_BERZIEK_REGISTRATIE	REGBZ_BZ_CAS_CODE	DATETIMES	4417	1
VB	FORMULIER_BEROEPSZIE	REGBZ_BZ_CASCODE	TEXT	2386	1
BZ_DATUM_SIGNALERING	KTEN	REGBZ_BZ_CONTRACTNU	TEXT	326	1
BZ_DIAGNOSE	T_BERZIEK_REGISTRATIE	MMER	TEXT	326	1
BZ_ERNST_ZIEKTE_CODE	FORMULIER_BEROEPSZIE	REGBZ_BZ_DATUM	TEXT	4417	1
BZ_ERNST_ZIEKTE_OMSC	KTEN	REGBZ_BZ_DATUM_MELDI	DATETIMES	4417	1
HRIJVING	T_BERZIEK_REGISTRATIE	NG_NCVB	TEXT	4417	1
BZ_FUNCTIE	FORMULIER_BEROEPSZIE	REGBZ_BZ_DATUM_SIGNA	TEXT	2386	4
BZ_GEBDATUM	KTEN	LERING	TEXT	2386	1
BZ_GESLACHT	T_BERZIEK_REGISTRATIE	REGBZ_BZ_DIAGNOSE	TEXT	4417	1
BZ_INGELICHT	FORMULIER_BEROEPSZIE	REGBZ_BZ_ERNST_ZIEKT	TEXT	2031	1
BZ_MANIFEST	KTEN	E_CODE	TEXT	2031	1
BZ_NAAM_WG	T_BERZIEK_REGISTRATIE	REGBZ_BZ_ERNST_ZIEKT	TEXT	2031	1
BZ_NCVB_ARTSCODE	FORMULIER_BEROEPSZIE	E_OMSCHRIJVING	TEXT	2031	1
BZ_NCVB_VESTCODE	KTEN	REGBZ_BZ_FUNCTIE	TEXT	2031	1
BZ_OORZAAK	T_BERZIEK_REGISTRATIE	REGBZ_BZ_GEBDATUM	TEXT	2031	1
BZ_OORZAAK_CODE	FORMULIER_BEROEPSZIE	REGBZ_BZ_GESLACHT	TEXT	2031	1
BZ_OORZAAK_CODE2	KTEN	REGBZ_BZ_INGELICHT	TEXT	2031	1

Step 4 – Create Random Test files (optional)

This is an optional step to check if mapping is working fine. This step will create a design copy of the database in the <original server>\\<notesdata>\temp\<original filepath> and will fill this database with random data.

This step may be useful when you want to export large databases and you want to be sure that the forms and fields are mapped correctly.

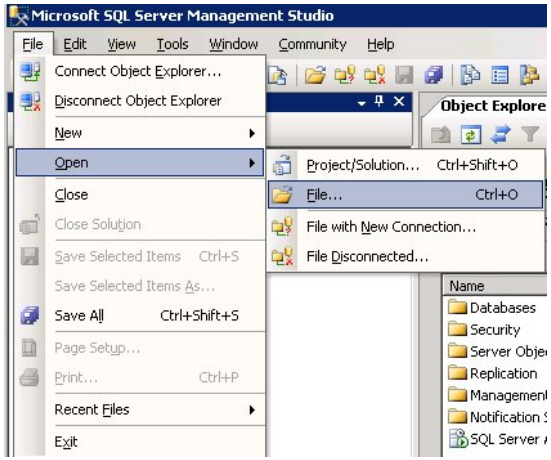
Reset

This action will reset the “run number” on all documents to 0. For more information about run numbers view 3.4 The pump agent
This action is not recommended to use, as it may disturb the process.

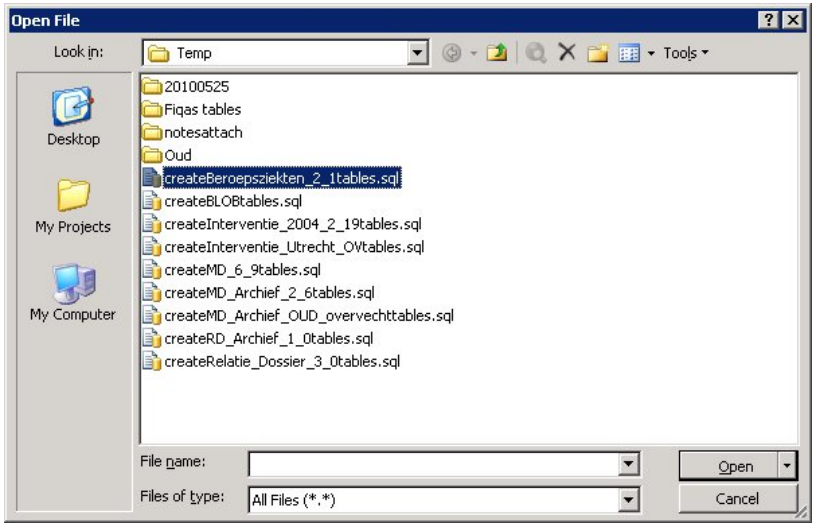
3.3 Import the *.sql table files into the SQL database

When the application is using the ODBC Connector an ODBC Connection needs to be made on the Operating System. This is not needed for use with OLEDB. More information on this topic can be found in Appendix – Setup ODBC.

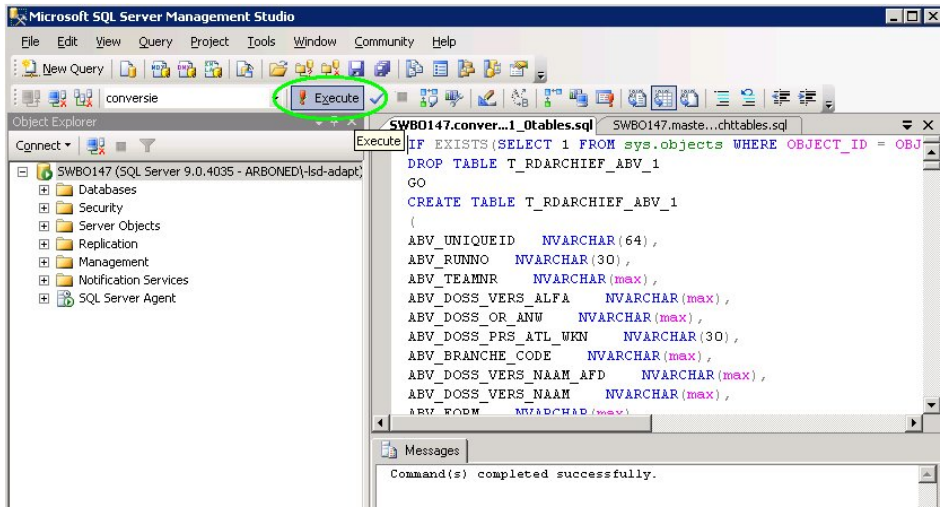
When and the SQL database and the *.sql files for tables have been created, you need to import the tables into the SQL database. To do this, open Server Management Studio (as described in the Appendix). Then choose File/Open/File…



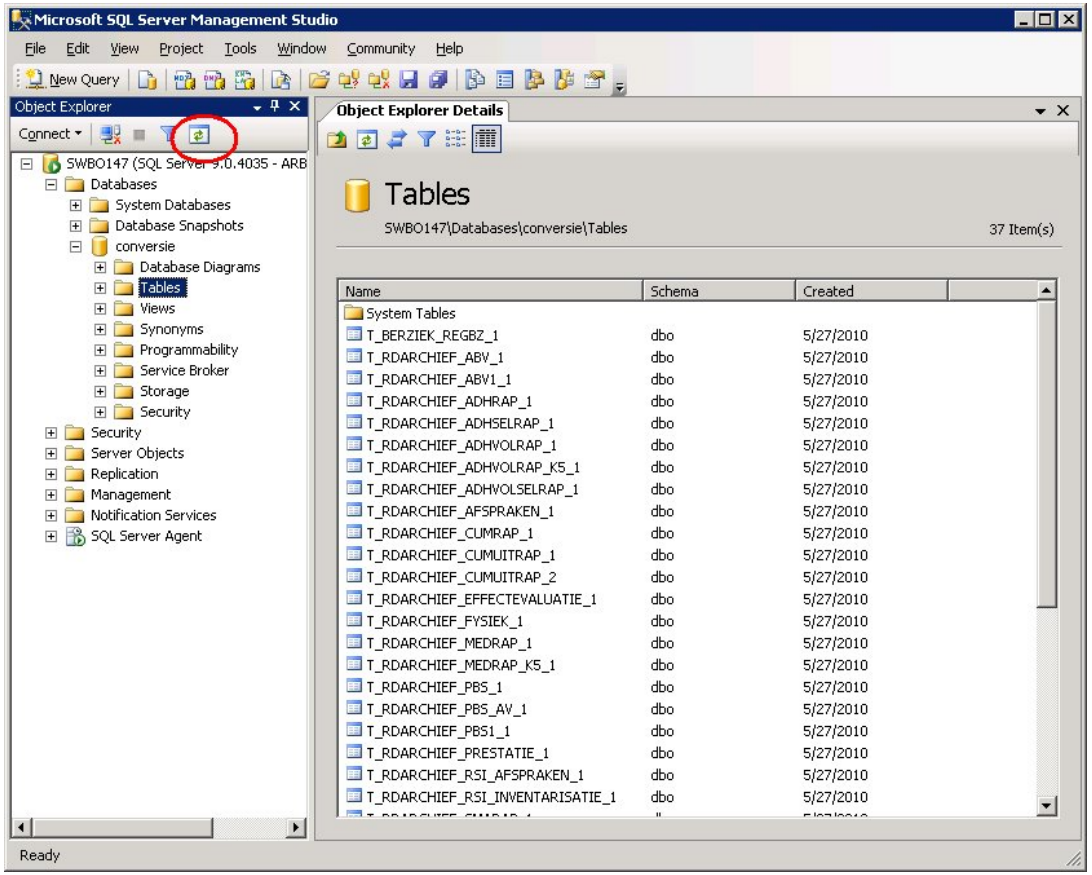
Here you can select the SQL table you want to import. You have to import the files one-by-one. Click the “Open” button



Then click the “Execute” action in the toolbar. This will create the table for the selected sql file.



When all *.sql files are imported and executed, click the Refresh button to see the newly created tables.



3.4 The pump agent

When all actions described in the paragraph above are performed, you can enable the scheduled “pump” agent. This agent maps all fields to various tables (based on the database and form name) in the specified SQL database. The pump agent runs every 4 hours and will keep track of a “run number” and a checksum for the document.

- The run number will indicate whether the agent should process or skip this document during the next run, when the agent has been aborted in an earlier run.

- The checksum of the document is a value generated from the document’s last modified date. This value is logged on the “$DOC_CHECKSUM” field in the Data Integrity Log. For each document that is transported, a Data Integrity Log database is created. You will find these Log databases in the [notestosql dir]\LOG\[table postfix]\ directory on the server. When the checksum value does not correspond to the value of the Notes database field, the agent will add the updates to a the SQL table, the old value is not overwritten. For SQL it is clear this contains modifications to the earlier transported data. Records with the highest absolute value in the run number will be the most recent, deletions will be written with negative run numbers

All fields, except Rich Text, are converted to text before transport. Rich text will be converted to MIME using the Lotus Domino Internal mechanism, File attachments will be stored in a separate T_BLOB[table postfix] table, which can be linked to the original document using the <form>_UNIQUEID key.

In this release, internal (“$.....”), and Reader fields are not exported. Field

The “Status Log” view shows the activity status of the pump agent. Below you will find an excerpt of such a log.

Starttime: 09-05-2010 02:08
Endtime: 09-05-2010 02:16

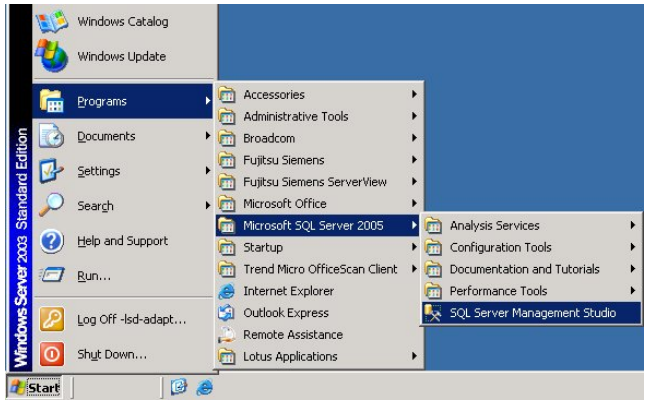
Log:

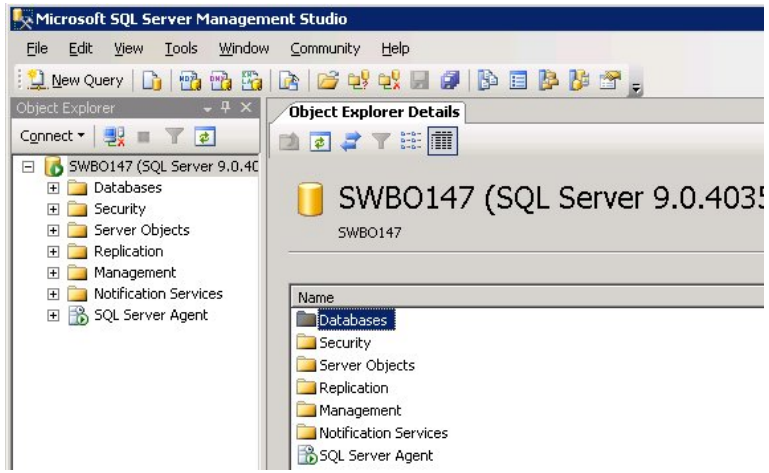
9-5-2010 2:09:32: Starting Run 1
9-5-2010 2:09:32: Starting process on database: CN=App02/O=Lialis!!applications\47AN\S-252\berziek.nsf
9-5-2010 2:09:36: Connecting to ODBC Blob Table: T_BLOB
9-5-2010 2:09:39: Connection to form: "REGBZ"
9-5-2010 2:09:39: Mapping field: BZ_AANDOENING to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_BZ_AANDOENING (TEXT)
9-5-2010 2:09:39: Connecting to ODBC Out Table: T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN
9-5-2010 2:09:39: Mapping field: BZ_AANDOENING_SPOOR to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_BZ_AANDOENING_SPOOR (TEXT)
9-5-2010 2:09:39: Mapping field: BZ_AANDOENINGEN to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_BZ_AANDOENINGEN (TEXT)
9-5-2010 2:09:39: Mapping field: BZ_AARD_BEROEPSZIEKTE to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_BZ_AARD_BEROEPSZIEKTE (TEXT)
9-5-2010 2:09:39: Mapping field: BZ_ACTIVITEIT to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_BZ_ACTIVITEIT (TEXT)
9-5-2010 2:09:39: Mapping field: BZ_ADVIES_WG to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_BZ_ADVIES_WG (TEXT)
9-5-2010 2:09:39: Mapping field: BZ_ADVIEZEN to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_BZ_ADVIEZEN (TEXT)
9-5-2010 2:09:39: Mapping field: BZ_ARBODIENST to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_BZ_ARBODIENST (TEXT)
9-5-2010 2:09:39: Mapping field: BZ_BEDRIJFSARTS to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_BZ_BEDRIJFSARTS (TEXT)
9-5-2010 2:09:39: Mapping field: BZ_BEROEP to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_BZ_BEROEP (TEXT)
9-5-2010 2:09:39: Mapping field: BZ_BEROEP_CODE to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_BZ_BEROEP_CODE (TEXT)
....
9-5-2010 2:09:40: Mapping field: BZ_VOLGNUMMER to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_BZ_VOLGNUMMER (NUMBERS)
9-5-2010 2:09:40: Mapping field: BZ_WERKZAAMHEDEN to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_BZ_WERKZAAMHEDEN (TEXT)
9-5-2010 2:09:40: Mapping field: BZ_WIE_INGELICHT to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_BZ_WIE_INGELICHT (TEXT)
9-5-2010 2:09:40: Mapping field: BZ_ZEKERHEID to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_BZ_ZEKERHEID (TEXT)
9-5-2010 2:09:40: Mapping field: FORM to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_FORM (TEXT)
9-5-2010 2:09:40: Mapping field: RELATIE to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_RELATIE (TEXT)
9-5-2010 2:09:40: Mapping field: STATUSVERZENDEN to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_STATUSVERZENDEN (TEXT)
9-5-2010 2:09:40: Mapping field: WN_AANSTELLING_ID to T_BERZIEK_REGISTRATIEFORMULIER_BEROEPSZIEKTEN.REGBZ_WN_AANSTELLING_ID (TEXT)
9-5-2010 2:09:40: Start processing
9-5-2010 2:12:59: Done processing:
9-5-2010 2:12:59: 1417 documents
9-5-2010 2:12:59: 0 attachments
9-5-2010 2:12:59: Disconnecting form: "REGBZ"
9-5-2010 2:12:59: Starting process on database: CN=App02/O=Lialis!!applications\47AN\S-252\interventie.nsf
9-5-2010 2:12:59: Connecting to ODBC Blob Table: T_BLOB
9-5-2010 2:12:59: Connection to form: "VAC"
9-5-2010 2:12:59: Mapping field: AC_DATUM to T_INTERVENTIE_VERVOLGACTIE.VAC_AC_DATUM (DATETIMES)
9-5-2010 2:12:59: Connecting to ODBC Out Table: T_INTERVENTIE_VERVOLGACTIE
9-5-2010 2:13:00: Mapping field: AC_DATUM_VERVOLG to T_INTERVENTIE_VERVOLGACTIE.VAC_AC_DATUM_VERVOLG (DATETIMES)
9-5-2010 2:13:00: Mapping field: AC_MEDEWERKER to T_INTERVENTIE_VERVOLGACTIE.VAC_AC_MEDEWERKER (TEXT)
9-5-2010 2:13:00: Mapping field: AC_MEMO to T_INTERVENTIE_VERVOLGACTIE.VAC_AC_MEMO (TEXT)
9-5-2010 2:13:00: Mapping field: AC_PRIORITEIT to T_INTERVENTIE_VERVOLGACTIE.VAC_AC_PRIORITEIT (TEXT)
9-5-2010 2:13:00: Mapping field: AC_VERVOLG to T_INTERVENTIE_VERVOLGACTIE.VAC_AC_VERVOLG (TEXT)
9-5-2010 2:13:00: Mapping field: AC_VOORBESTEMD to T_INTERVENTIE_VERVOLGACTIE.VAC_AC_VOORBESTEMD (TEXT)
....
9-5-2010 2:13:00: Mapping field: WN_NAAM_VL to T_INTERVENTIE_VERVOLGACTIE.VAC_WN_NAAM_VL (TEXT)
9-5-2010 2:13:00: Mapping field: WN_NAAM_VV to T_INTERVENTIE_VERVOLGACTIE.VAC_WN_NAAM_VV (TEXT)

9-5-2010 2:13:00: Mapping field: WN_NAAM_WG to T_INTERVENTIE_VERVOLGACTIE.VAC_WN_NAAM_WG (TEXT)
9-5-2010 2:13:00: Mapping field: WN_SOFINUMMER to T_INTERVENTIE_VERVOLGACTIE.VAC_WN_SOFINUMMER (TEXT)
9-5-2010 2:13:00: Mapping field: WN_TEAM to T_INTERVENTIE_VERVOLGACTIE.VAC_WN_TEAM (NUMBERS)
9-5-2010 2:13:00: Mapping field: ZM_DATUM_GEVAL to T_INTERVENTIE_VERVOLGACTIE.VAC_ZM_DATUM_GEVAL (TEXT)
9-5-2010 2:13:00: Mapping field: ZM_OORZAAK to T_INTERVENTIE_VERVOLGACTIE.VAC_ZM_OORZAAK (TEXT)
9-5-2010 2:13:00: Start processing
9-5-2010 2:15:33: Done processing:
9-5-2010 2:15:33: 1640 documents
9-5-2010 2:15:33: 0 attachments
9-5-2010 2:15:33: Disconnecting form: "VAC"
9-5-2010 2:15:33: Connection to form: "ERAP"
9-5-2010 2:15:33: Mapping field: BEDRIJFSNUMMER to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_BEDRIJFSNUMMER (TEXT)
9-5-2010 2:15:33: Connecting to ODBC Out Table: T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE
9-5-2010 2:15:34: Mapping field: CREATOR to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_CREATOR (TEXT)
9-5-2010 2:15:34: Mapping field: DATABASE to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_DATABASE (TEXT)
9-5-2010 2:15:34: Mapping field: DOCCATEGORY to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_DOCCATEGORY (TEXT)
9-5-2010 2:15:34: Mapping field: DOCICON to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_DOCICON (NUMBERS)
9-5-2010 2:15:34: Mapping field: DOCTITLE to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_DOCTITLE (TEXT)
9-5-2010 2:15:34: Mapping field: ERAP_DATUM to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_ERAP_DATUM (DATETIMES)
9-5-2010 2:15:34: Mapping field: ERAP_MEDEWERKER to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_ERAP_MEDEWERKER (TEXT)
9-5-2010 2:15:34: Mapping field: ERAP_MEMO to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_ERAP_MEMO (TEXT)
9-5-2010 2:15:34: Mapping field: FORM to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_FORM (TEXT)
9-5-2010 2:15:34: Mapping field: KPN_JN to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_KPN_JN (TEXT)
9-5-2010 2:15:34: Mapping field: NEWDOC to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_NEWDOC (TEXT)
9-5-2010 2:15:34: Mapping field: UNID to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_UNID (TEXT)
9-5-2010 2:15:34: Mapping field: VEST_SERVERNAAM to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_VEST_SERVERNAAM (TEXT)
9-5-2010 2:15:34: Mapping field: WN_AANSTELLING_ID to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_WN_AANSTELLING_ID (TEXT)
9-5-2010 2:15:34: Mapping field: WN_NAAM to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_WN_NAAM (TEXT)
9-5-2010 2:15:34: Mapping field: WN_NAAM_VL to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_WN_NAAM_VL (TEXT)
9-5-2010 2:15:34: Mapping field: WN_NAAM_VV to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_WN_NAAM_VV (TEXT)
9-5-2010 2:15:34: Mapping field: WN_NAAM_WG to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_WN_NAAM_WG (TEXT)
9-5-2010 2:15:34: Mapping field: WN_SOFINUMMER to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_WN_SOFINUMMER (TEXT)
9-5-2010 2:15:34: Mapping field: WN_TEAM to T_INTERVENTIE_RAPPORTEN_EINDRAPPORTAGE.ERAP_WN_TEAM (NUMBERS)
9-5-2010 2:15:34: Start processing
9-5-2010 2:16:37: Done processing:
9-5-2010 2:16:37: 1160 documents
9-5-2010 2:16:37: 0 attachments
9-5-2010 2:16:37: Disconnecting form: "ERAP"
9-5-2010 2:16:37: Connection to form: "VER"
9-5-2010 2:16:37: Mapping field: AANSLUITNUMMER to T_INTERVENTIE_VERRICHTING.VER_AANSLUITNUMMER (TEXT)
9-5-2010 2:16:37: Connecting to ODBC Out Table: T_INTERVENTIE_VERRICHTING
9-5-2010 2:16:37: Mapping field: AANTALVERR to T_INTERVENTIE_VERRICHTING.VER_AANTALVERR (NUMBERS)
....

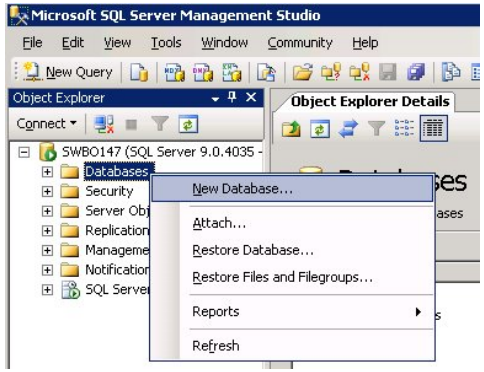
Appendix – Setup ODBC

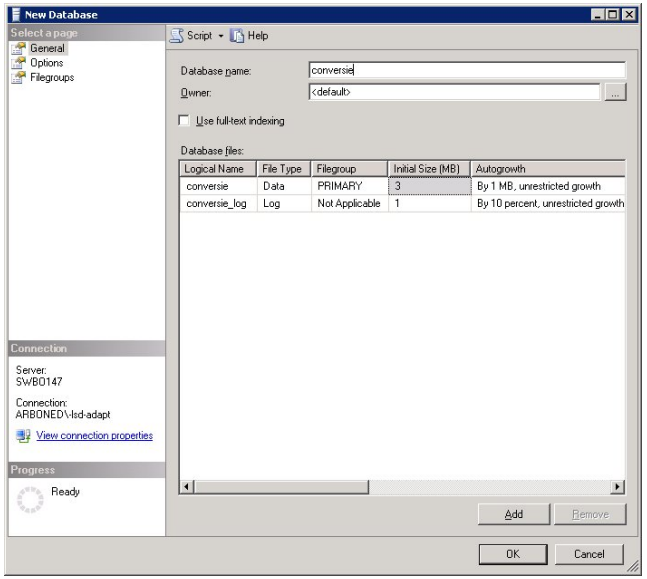
1. Start SQL Server Management Studio

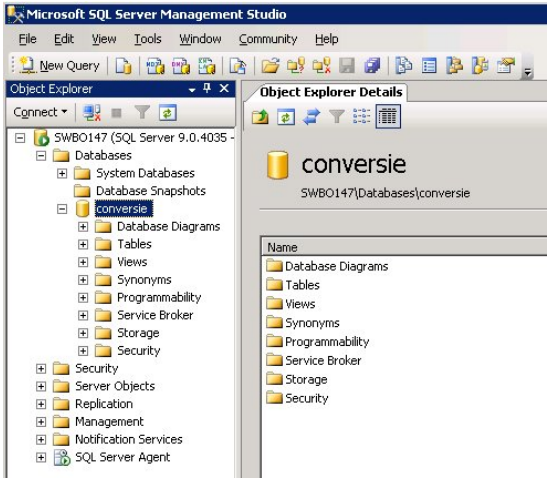




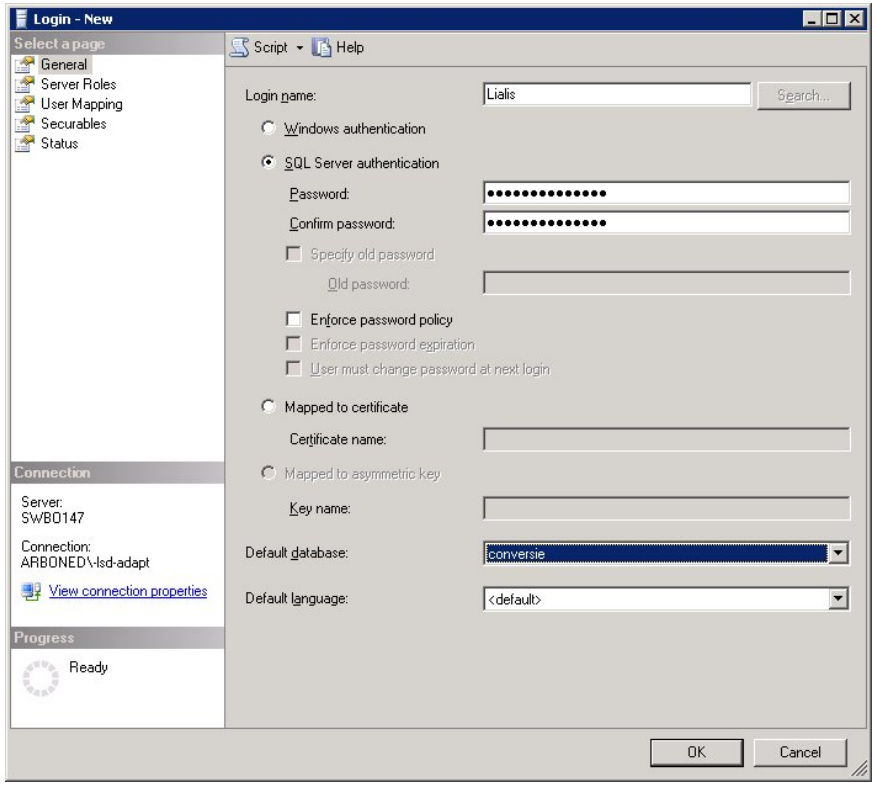
2. Create a new database



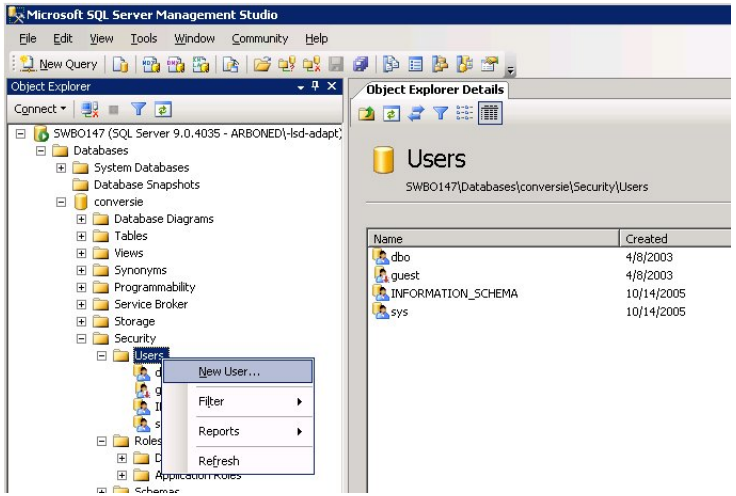


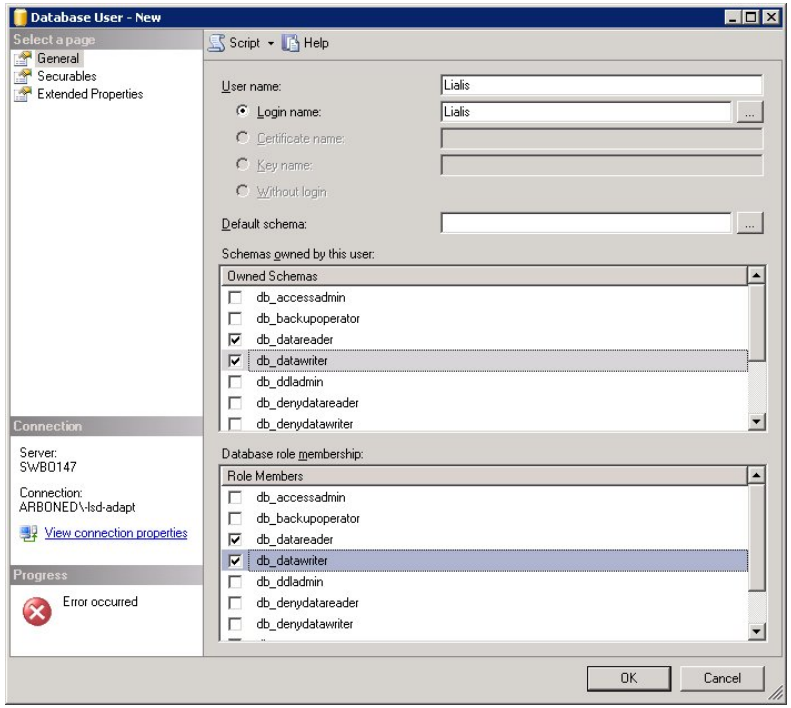


3. Add a user/login to the SQL Server



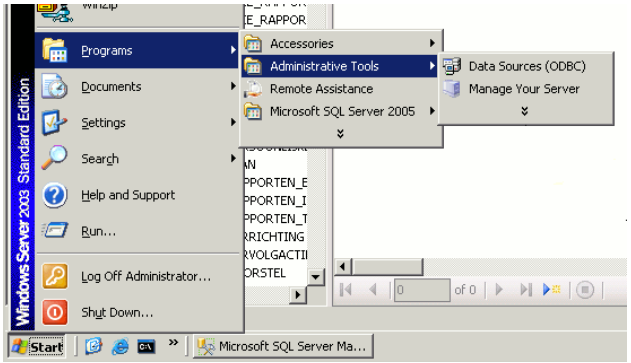
4. Add the user to the database and select the appropriate roles



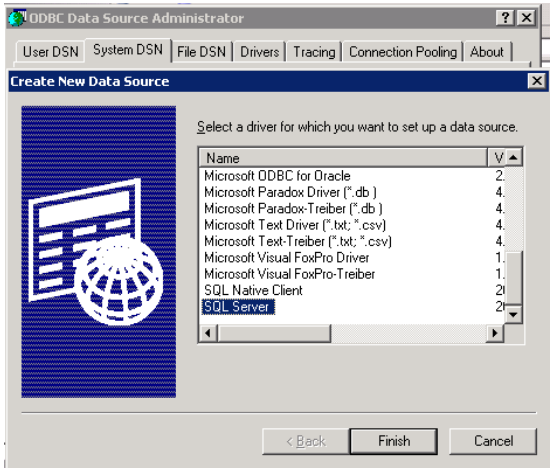


5. Create an ODBC connection to log in to the SQL Server

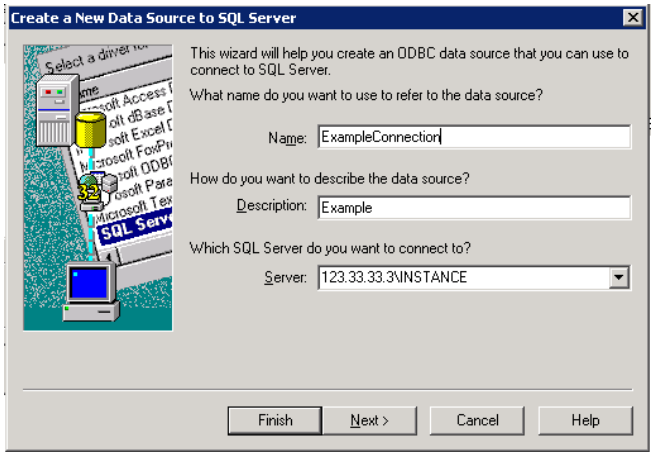
For the correct working of the application an ODBC connection must be made to the SQL system. To do this on the Domino Server System, open the ODBC Data Sources Administrator (via Control Panel or as shown below).



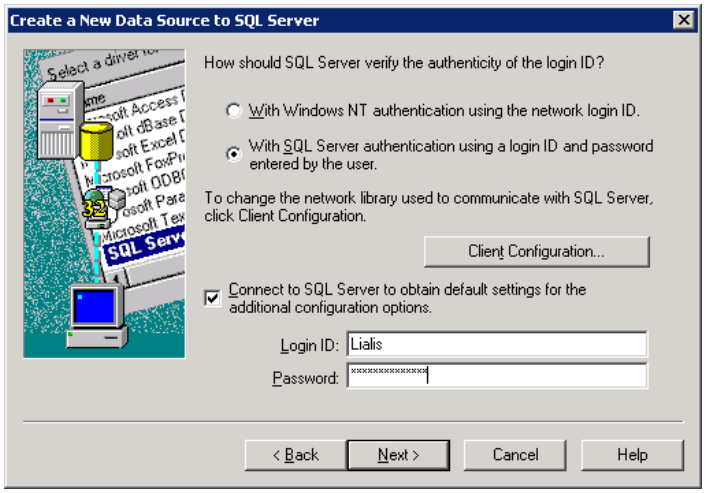
From the Administrator go to the System DSN tab and click “add”. A System DSN is needed so the Domino Server Running as a service under the local system account is able to access it. In the “Create New Data Source” window, select either the SQL Native Client or the SQL Server database driver. Except for some ignorable details they are the same. Click Finish.



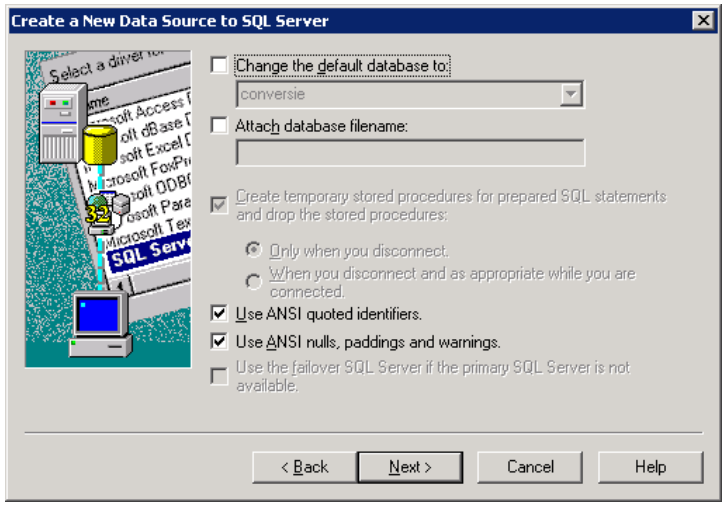
Select a name for the Data Source. This is the name that needs to be configured in the application (see 3.1 Configuration) and select or add the Server that needs to be connected to. This can be an IP number and can be followed by a server instance. Click Next.

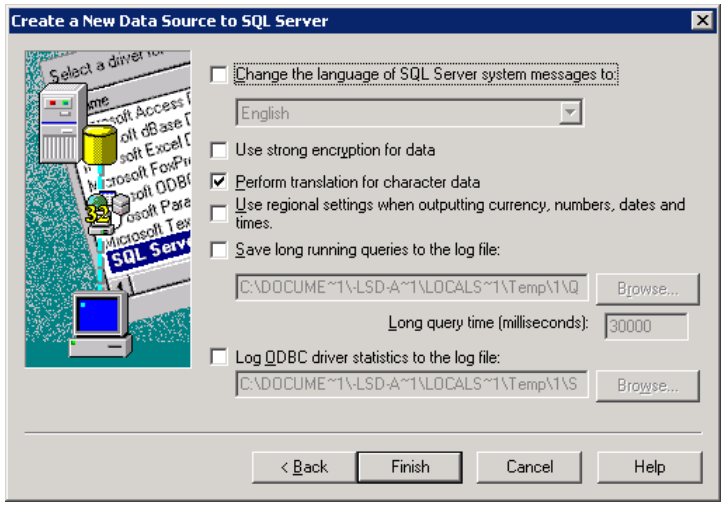

Create a New Data Source to SQL Server
This wizard will help you create an ODBC data source that you can use to connect to SQL Server.
What name do you want to use to refer to the data source?
Name: ExampleConnection
How do you want to describe the data source?
Description: Example
Which SQL Server do you want to connect to?
Server: 123.33.33.3\INSTANCE
Finish
Next >
Cancel
Help

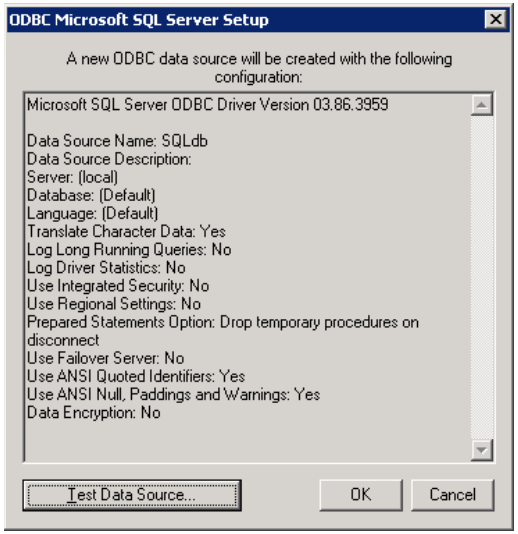
Use the “With SQL Server authentication using a login ID and password entered by the user” radio button selection. And enter the credentials in the fields beneath it. Click Next.


Create a New Data Source to SQL Server
How should SQL Server verify the authenticity of the login ID?
With Windows NT authentication using the network login ID.
With SQL Server authentication using a login ID and password entered by the user.
To change the network library used to communicate with SQL Server, click Client Configuration.
Client Configuration...
Connect to SQL Server to obtain default settings for the additional configuration options.
Login ID: Lialis
Password:
< Back
Next >
Cancel
Help

Use the default settings on all following dialogs until a Test Data Source dialog appears. When the test succeeds the Data Source has been correctly setup and can be used from the application.


Create a New Data Source to SQL Server
Change the default database to:
conversie
Attach database filename:
Create temporary stored procedures for prepared SQL statements and drop the stored procedures:
Only when you disconnect.
When you disconnect and as appropriate while you are connected.
Use ANSI quoted identifiers.
Use ANSI nulls, paddings and warnings.
Use the failover SQL Server if the primary SQL Server is not available.
< Back
Next >
Cancel
Help




ODBC Microsoft SQL Server Setup
A new ODBC data source will be created with the following configuration:
Microsoft SQL Server ODBC Driver Version 03.86.3959
Data Source Name: SQLdb
Data Source Description:
Server: (local)
Database: (Default)
Language: (Default)
Translate Character Data: Yes
Log Long Running Queries: No
Log Driver Statistics: No
Use Integrated Security: No
Use Regional Settings: No
Prepared Statements Option: Drop temporary procedures on disconnect
Use Failover Server: No
Use ANSI Quoted Identifiers: Yes
Use ANSI Null, Paddings and Warnings: Yes
Data Encryption: No
Test Data Source...
OK
Cancel